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Substitute for form 1449/PTO

Sheet 1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of 6

Col	mplete if Known	
Application Number	09/937,937	
Filing Date	October 2, 2001	
First Named Inventor	HANNIGAN, et al	
Art Unit	3743	
Examiner Name	LEWIS, Kim M.	
Attorney Docket Number	VAC 482 US	

			U. S. PATENT D		-
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
		Number-Kind Code ^{2 (# known)}			Figures Appear
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<u> </u>		AU-550575-A1	08-26-1982	Wright	P.4, lines 7-10	
1		EP-0100148	02- 1984	Naylor, et al	Abstract	
		WO 96/05873	02-29-1996	Lina		Г
		WO 97/18007	05-22-1997	Hunt		Г
V		EP-0161865	11-21-1985	Ward		
		EP-0117632-A2	01-1984	JMcCracken	,	_

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Application Number	09/937,937		
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First Named Inventor	HANNIGAN, et al		
Art Unit	3743	-	
Examiner Name	LEWIS, Kim M.		
Attorney Docket Number	VAC.482.US		

Complete if Known

			U. S. PATENT D	OCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		FORE	IGN PATENT DOCL	JMENTS		
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1		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY	The state of the s	Or Relevant Figures Appear	T®
		PCT/GB98/02713	09-09-1998	KCI Medical Ltd		
Λ		AU-745271	03-14-2002	KCI Medical Ltd		
		SG-71559	04-16-2002	KCI Medical Ltd		Г
		GB-2,329,127 B	08-16-2000	KCI Medical Ltd		十
_/		GB-2,333,965 A		KCI Medical Ltd		
~	_	AU ₁ 755496		KCI Medical Ltd	<u> </u>	

Examiner Signature Date Considered 5/22/05

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Sheet 3

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	Col	mplete if Known	`
	Application Number	09/937,937	
	Filing Date	October 2, 2001	
i	First Named Inventor	HANNIGAN, et al	
	Art Unit	3743	
	Examiner Name	LEWIS, Kim M.	
	Attorney Docket Number	VAC 492 LIS	

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Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (I known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		GB-692,578	06-10-1953	Minnesota Min		
1		WO 80/02182	10-16-1980	Moss, James		
		WO/94/20041	09-15-1994	WFU/Argenta, L.		Г
		DE-295 04 378 U1	09-14-1995	MTG		Т
V		DE-43 06 478 A1	09-08-1994	Wagner, W.		Γ
L		CA-2005436		Kalt, Glenda G.		

Examiner Signature	Date Considered	Bhilar

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09/937,937

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Application Number

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of 6

Filing Date	October 2, 2001
First Named Inventor	HANNIGAN, et al
Art Unit	3743
Examiner Name	LEWIS, Kim M.

Attorney Docket Number VAC.482.US

Sheet 4 **U. S. PATENT DOCUMENTS** Examiner Cite **Document Number Publication Date** Name of Patentee or Pages, Columns, Lines, Where MM-DD-YYYY No.1 Initials* Applicant of Cited Document Relevant Passages or Relevant Number-Kind Code^{2 (* known)} Figures Appear US-US-US-US-บร-US-US. HS. US-US-US-US-US-US-US-US-US-IIS.

			IGN PATENT DOCU	IMENTS		
	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ "Number ⁴ "Kind Code ⁸ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T
		WO 93/09727	05-27-1993	Wake Forest Un.		
Δ		GB-2 197 789 A	06-02-1988	Smith Industrie		Ĺ
		EP-0358 302	03-14-1990	Smith Industrie		Γ
		DE 26 40 413 A1	03 09 1978	Wolf, Richard		Ī
را		EP 1 018 967B1	08-18-2004	Heaton, Keith		Γ
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Examiner Signature Considered

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Sheet 5

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Filing Date October 2, 2001 First Named Inventor HANNIGAN, et al Art Unit 3743 (Use as many sheets as necessary) **Examiner Name** LEWIS, Kim M. Attorney Docket Number VAC.482.US of 6

Application Number

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (# known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
_		^{US-} 5,437,622	08-01-1995	Carion, Jean-Pierre	
		^{US-} 6,345,623	02-12-2002	Heaton, K., et al	
		US- 6,553,998	04-29-2003	Heaton, K., et al	
		^{US-} 6,814,079	11-09-2004	Heaton, K., et al	
		^{US-} 5,437,651	08-01-1995	Todd, R., et al	
		^{US-} 5,549,584	08-27-1996	Gross, James R.	•
		US- 5,134,994	08-04-1992	Say, Sam L.	
		^{US-} 4,710,165	12-01-1987	McNeil, C.B., et al	
		^{US-} 3,520,300	07-14-1970	Flower, Guiles	
		^{US-} 4,758,220	07-19-1988	Sundblom, L., et al	
		^{US-} 5,279,550	01-18-1994	Habib, Magdi, et al	
		^{US-} 5,092,858	03-03-1992	Benson C.D., et al	
V		^{US-} 5,086,170	02-04-1992	Luheshi A., et al	
		US- 5,278,100	01-11-1994	Doan, T., et al	
		US-			

		FORE	IGN PATENT DOCU	MENTS		
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Substituting form 1449/PTO		Complete if Known
, Agri	Application Number	09/937,937
HIFORMATION DISCLOSURE	Filing Date	October 2, 2001
STATEMENT BY APPLICANT	First Named Inventor	HANNIGAN, et al
(Use as many sheets as necessary)	Art Unit	3743
	Examiner Name	LEWIS, Kim M.

Attorney Docket Number

VAC.482.US

Sheet 6

			NON PATENT LITERATURE DOCUMENTS				
Examiner Cite Initials* No.1		Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
1	_		International Search Report for PCT international application PCT/GB95/01983; November 23, 1995				
			Patent Abstract of Japan; JP4129536; Terumo Corporation; April 30, 1992				
-			PCT International Search Report; PCT international application PCT/GB98/02713; June 8, 1999				
			PCT Written Opinion; PCT international application PCT/GB98/02713; June 8, 1999				
			PCT International Examination and Search Report, PCT international application PCT/GB96/02802; Jan. 15 1998 and April 29, 1997				
1	-		PCT Written Opinion, PCT international application PCT/GB96/02802; September 3, 1997				
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Complete if Known Substitute for form 1449/PTO **Application Number** 09/937,937 Filing Date October 2, 2001 INFORMATION DISCLOSURE First Named Inventor HANNIGAN, et al STATEMENT BY APPLICANT Art Unit 3743 (Use as many sheets as necessary) **Examiner Name** LEWIS, Kim M. of 6 Attorney Docket Number VAC.482.US Sheet

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Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (s knoczn)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
٦		^{US-} 1355846	10-19-1920	Rannells	Figs. 1,2
7		^{US-} 2547758	04-03-1951	Keeling	Fig. 2
		US- 2632443	03-24-1953	Lesher	Figs. 1-3
		^{US-} 2682873	07-06-1954	Evans et al.	Fig. 2
1		^{US-} 2969057	01-24-1961	Simmons	Figs. 1-6
		^{US-} 3367332	02-06-1968	Groves	Figs. 1, 4
T^{-}		US- 3648692	03-14-1972	Wheeler	Fig. 1
T		us- 3682180	08-08-1972	McFarlane	Fig. 3
Ι		US- 3826254	07-30-1974	Mellor	Fig. 2
		^{US-} 4080970	03-28-1978	Miller	Column 1 - Column 3
		^{US-} 4096853	06-27-1978	Weigand .	Column 3, Lines 2-20
		^{US-} 4139004	02-13-1979	Gonzalez	Column 4
		^{US-} 4165748	08-28-1979	Johnson	Fig. 2
		US- 4245630	01-20-1981	Lloyd et al.	Fig. 1
		US- 4261363	04-14-1981	Russo	Figs. 1, 4, 5
1/		^{US-} 4275721	06-30-1981	Olson	Fig. 1
17		^{US-} 4284079	08-18-1981	Adair	Fig. 3
V		^{US-} 4297995	11-03-1981	Golub	Fig. 1
سا		US- 4333468	06-08-1982	Geist	Fig. 2, 4

		IGN PATENT DOCU	IMENIS		
Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
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	AU-550575-A1	08-26-1982	Wright	P.4, lines 7-10	
	EP-0100148	02- 1984	Naylor, et al	Abstract	
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		Country Code ³ Number ⁴ *Kind Code ⁵ (if known) AU-550575-A1	Cite No.1 Foreign Patent Document Publication Date MM-DD-YYYY	Cite No. 1 Country Code 3 Number 4 Kind Code 5 (if known) AU-550575-A1 Publication Date MM-DD-YYYY O8-26-1982 Wright	Cite No.1 Foreign Patent Document No.1 Country Code3 Number 4 Kind Code5 (if known) Publication Date MM-DD-YYYY Name of Patentee or Applicant of Cited Document MM-DD-YYYY Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear Name of Patentee or Applicant of Cited Document Where Relevant Passages Or Relevant Figures Appear Name of Patentee or Applicant of Cited Document Where Relevant Passages Or Relevant Figures Appear Name of Patentee or Applicant of Cited Document Where Relevant Passages Or Relevant Figures Appear Name of Patentee or Applicant of Cited Document Where Relevant Passages Or Relevant Figures Appear Name of Patentee or Applicant of Cited Document Where Relevant Passages Or Relevant Figures Appear Name of Patentee or Applicant of Cited Document Where Relevant Passages Or Relevant Figures Appear Name of Patentee or Applicant of Cited Document Where Relevant Passages Or Relevant Figures Appear Name of Patentee or Applicant of Cited Document Where Relevant Passages Or Relevant Figures Appear Name of Patentee or Applicant of Cited Document Where Relevant Passages Or Relevant Figures Appear Name of Patentee or Applicant of Cited Document Where Relevant Passages Or Relevant Figures Appear Name of Patentee or Applicant of Cited Document Where Relevant Passages Name of Patentee or Applicant of Cited Document Where Relevant Passages Name of Patentee or Applicant Or Relevant Passages Name of Patentee or Applicant Or Relevant Passages Name of Patentee or Applicant Or Relevant Passages Name of Patentee or Applicant Or Relevant Passages Name of Patentee or Applicant Or Relevant Passages Name of Patentee or Applicant Or Relevant Passages Name of Patentee or Applicant Or Relevant Passages Name of Patentee or Applicant Or Relevant Passages Name of Patentee or Applicant Or Relevant Passages Name of Patentee or Applicant Or Relevant Passages Name of Patentee or Applicant Or Relevant Passages Name of Patentee or Applicant Or Relevant Passa

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LEWIS, Kim M.

Fig. 1

Figs. 2-4

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

Complete if Known

Application Number | 09/937,937

Filing Date | October 2, 2001

First Named Inventor | HANNIGAN, et al.

Art Unit | 3743

(Use as many sheets as necessary)

Sheet 2 of 6

^{US-} 4733659

US- 4743232

U. S. PATENT DOCUMENTS Examiner **Document Number Publication Date** Name of Patentee or Pages, Columns, Lines, Where MM-DD-YYYY Initials* Applicant of Cited Document Relevant Passages or Relevant Number-Kind Code^{2 (J known)} Figures Appear ^{US-} 4373519 02-15-1983 Errede et al. Column 4 US-US- 4392853 07-12-1983 Muto Fig. 11 US- 4392858 07-12-1983 George et al. Column 3, Lines 5-58 US- 4419097 12-06-1983 Rowland Fig. 8 US- 4475909 10-09-1984 Eisenberg Figs. 1, 3, 6 US- 4480638 11-06-1984 Schmid Figs. 2, 3 ^{US-} 4525166 06-25-1985 Leclerc Column 5-6 ^{US-} 4525374 06-25-1985 Vailancourt US- 4540412 09-10-1985 Van Overloop Column 2 US- 4543100 Brodsky 09-24-1985 Fig. 4 US- 4551139 Plaas et al. 11-05-1985 C1, L 66 - C2, L68 US- 4569348 02-11-1986 Hasslinger C2, L50 - C4, L 27 us- 4605399 08-12-1986 Weston et al. Fig. 3 US- 4608041 08-26-1986 Nielson US-4640688 02-03-1987 Hauser Fig. 2 us- 4655754 Richmond et al. 04-07-1987 Column 1, Line 39-44

FOREIGN PATENT DOCUMENTS								
	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages			
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	۲		
		•						

Edenbaum et al.

Kruger

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03-29-1988

05-10-1988

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Application Number 09/937,937

Filing Date October 2, 2001

First Named Inventor HANNIGAN, et al

Art Unit 3743

Examiner Name LEWIS, Kim M.

Attorney Docket Number VAC.482.US

			U. S. PATEN	DOCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (/ Antern)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
1		^{US-} 4787888	11-29-1988	Fox	Figs. 1, 4-6
1		^{US-} 4826949	05-02-1989	Richmond et al.	Column 1
		us- 4838883	06-13-1989	Matsuura	Fig. 7
		^{US-} 4840187	06-20-1989	Brazier	Column 2, Line 34-42
		US- 4863449	09-05-1989	Therriault et al.	Column 3, Line 45-68
		^{US-} 4872450	10-10-1989	Austad	Column 3-4
	<u> </u>	US- 4878901	11-07-1989	Sachse	
$\perp \perp$		us- 4897081	01-30-1990	Poirier et al.	C3, L25 - C4
	<u> </u>	^{US-} 4906233	03-06-1990	Moriuchi et al.	Abstract
	ļ	^{US-} 4906240	03-06-1990	Reed et al.	Fig. 1
	<u></u>	^{US-} 4919654	04-24-1990	Kalt	Column 3, Line 8-39
		^{US-} 4941882	07-17-1990	Ward et al.	Column 3, Line 38-64
	<u> </u>	^{US-} 4953565	09-04-1990	Tachibana et al.	Fig. 1
		US- 4969880	11-13-1990	Zamierowski	Figs. 1-10
/	<u></u>	US- 4985019	01-15-1991	Michelson	Column 1, Line 47-58
V		us- 5037397	08-06-1991	Kalt et al.	Figs.1, 2, 4, 6
<u>L</u>	<u> </u>	^{US-} 5100396	03-31-1992	Zamierowski	Figs. 1-10
	ļ	US-			
<u> </u>	<u> </u>	^{US-} 5167613	12-01-1992	Karami et al.	Figs. 4-5

		FORE	IGN PATENT DOCU	MENTS		
Examiner Cite Initials* No.1		Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Г
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Application Number 09/937,937

Filling Date October 2, 2001

First Named Inventor HANNIGAN, et al
Art Unit 3743

Examiner Name LEWIS, Kim M.

Attorney Docket Number VAC.482.US

				DOCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (J krazn)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		^{US-} 5176663	01-05-1993	Svedman et al	C1, L55 - C2, L8
1		US- 5232453	08-03-1993	Plass et al.	Fig. 2, 5
	•	^{US-} 5261893	11-16-1993	Zamierowski	Figs. 1, 13, 16
		^{US-} 5298015	03-29-1994	Komatsuzaki et al.	Abstract
		^{US-} 5344415	09-06-1994	Debusk et al.	Column 2, Line 9 -42
		^{US-} 5358494	10-25-1994	Svedman	Column 2, Line 34-47
		us- 5527293	06-18-1996	Zamierowski	C11, L 62 - C12, L37
		US- 5556375	09-17-1996	Ewall	C3, L62 - C4, L65
		^{US-} 5607388	03-04-1997	Ewall	Column 3-4
		^{US-} 4636643	06-10-1997	Argenta et al.	C6, Lines 18 - 64
		^{US-} 5645081	07-08-1997	Argenta et al.	C4, L28 - C5, L22
		US- 6071267	06-06-2000	Zamierowski	Figs. 1-3
		^{US-} 6135116	10-24-2000	Vogel et al.	Column 9
	1	us- 20020115951 A1	08-22-2002	Norstream et al.	
		us- 20020120185 A1	08-29-2002	Johnson	Fig. 3
		^{US-} 20020143286 A1	10-03-2002	Tumey	Paragragh 26
1/		US- 6488643	12-03-2002	Tumey et al.	
V		^{US-} 6493568	12-10-2002	Bell, et al.	
L		^{US-} 4,233,969	11-18-1980	Lock, et al.	C2, Lines 25 - 53

 	FORE	<u>IGN PATENT DOCU</u>	MENTS		
Cite No. 1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Γ
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				Application Number	09/937,937	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Filing Date	October 2, 2001	
				First Named Inventor	HANNIGAN, et al	
				Art Unit	3743	
tose as many sneeds as necessary,			ecessary)	Examiner Name	LEWIS, Kim M.	
Sheet	5	of	6	Attorney Docket Number	VAC.482.US	

Examiner Cite Initials* No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
5		LOUIS C. ARGENTA, MD and MICHAEL J. MORYKWAS, PHD; Vacuum-Assisted Closure: A New Method for Wound Control and Treatment: Clinical Experience; Annals of Plastic Surgery, Volume 38, Number 6, June 1997, pages 563-577; Lippincott Williams & Wilkins, Inc., Philadelphia, PA, U.S.A.					
1		SUSAN MENDEZ-EASTMAN, RN; When Wounds Won't Heal, RN January 1998, Volume 61(1); Medical Economics Company, Inc., Montvale, NJ, USA.					
	-	JAMES H. BLACKBURN II, MD et al.; Negative-Pressure Dressings as a Bolster for Skin Grafts; Annals of Plastic Surgery, Volume 40, Number 5, May 1998, pages 453-457; Lippincott Williams & Wilkins, Inc., Philidelphia, PA, USA					
		JOHN MASTERS; Letter to the editor; British Journal of Plastic Surgery, 1998, Volume 51(3), page 267: Elsevier Science/The British Assocition of Plastic Surgeons, United Kingdom					
S.E. GREER, et al.; The Use of Subatmospheric Pressure Dressing Therapy to Clos Lymphocutaneo of the Groin; British Journal of Plastic Surgery (2000), 53, pg 484-487, Article No. BJPS2000.3360, E Science/The British Association of Plastic Surgeons, United Kingdom							
7		GEORGE V. LETSOU, M.D., et al; Stimulation of Adenylate Cyclase Activity in Cultured Endothelial Cells Subjectied to Cyclic Stretch; Journal of Cardiovascular Surgery, 31, 1990, pages 634-639; Edizonia Minerva Medica, Torino, Italy					
-1							

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			Application Number	09/937,937	
INFORMATI	ON DIS	CLOSURE	Filing Date	October 2, 2001	
STATEMENT BY APPLICANT			First Named Inventor	HANNIGAN, et al	
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(Use as many sheets as necessary)			Examiner Name	LEWIS, Kim M.	
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<u></u>		KOSTYUCHENOK, B.M, et al. ;Vacuum Treatment in the Surgical Management of Purulent Wounds; Vestnik Khirurgi, September 1986			
		DAVYDOV, Yu. A., et al; Vacuum Therapy in the Treatment of Purulent Lactation Mastitis; Vestnik Khirurgi, September 1986			
	,	YUSUPOV, Yu. N., et al; Active Wound Drainage, Vestnik Khirurgi, Vol. 138, Issue 4, 1987.			
		DAVYDOV, Yu. A., et al; Bacteriological and Cytological Assessment of Vacuum Therapy of Purulent Wounds; Vestnik Khirurgi, October 1988			
1	, -	DAVYDOV, Yu. A., et al; Concepts For the Clinical-Biological Management of the Wound Process in the Treatment of Purulent Wounds by Means of Vacuum Therapy; Vestnik Khirurgi			
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